

## CLAIMS

Claim 1. A backlight system for a display panel, comprising:

- a point light source;
- a first light reflecting unit to reflect and to spread the incident light beam from said light source in a first direction; and
- a second light reflecting unit to spread the reflected light from said first light reflecting unit in a second direction and to project the reflected light from said second light reflecting unit onto a display screen as a backlight.

Claim 2. The backlight system as described in claim 1, wherein said first light reflecting unit has a reflecting surface selected from the contour group of ladder concave contour, ladder convex contour, ladder planar contour, and curved surface contours selected from the group consisting of ladder concave contour, ladder convex contour, ladder slant planar contour, and curved surface contours.

Claim 3. The backlight system as described in claim 1, wherein said second reflecting unit has a sloped reflecting surface having contours selected from the group consisting of ladder concave contour, ladder convex contour, ladder slant contour, and matrix array of domes..

Claim 4. The backlight system as described in claim 1, wherein said reflecting surface of the second reflecting unit is tilted toward the display screen.

Claim 5. The backlight system as described in claim 4, wherein said reflecting surface is the front surface of the second reflecting unit facing the display screen.

Claim 6. The backlight system as described in claim 4, wherein said reflecting surface is the inner back surface of the second reflecting unit away from the display screen and the second reflecting unit is transparent.

Claim 7. The backlight system as described in claim 1, wherein said second reflecting unit lies over said first reflecting unit.

Claim 8. The backlight system as described in claim 1, wherein said first reflecting unit is integrated with said second reflecting unit.

Claim 9. The backlight system as described in claim 1, further comprising a parabolic mirror to reflect and to project the light from said light source toward said first reflecting unit.

Claim 10. The backlight system as described in claim 1, further comprising a polarizer plate inserted in the light pass.

Claim 11. The backlight system as described in claim 10, wherein said polarizer plate is inserted between said light source and said first reflecting unit.

Claim 12 The backlight system as described in claim 1, wherein said light source is at the same elevation as the first reflecting unit.

Claim 13. The backlight system as described in claim 1, wherein said light source is elevated with respect to said first reflecting unit.

Claim 14. The backlight system as described in claim 1, wherein said light source is elevated over the top of said second reflecting unit.

Claim 15.. The backlight system as described in claim 3, wherein said matrix array of domes is selected from the group consisting of hemispheric domes, elliptical domes, and recessed domes.